



Jace Arends

Math

Roosevelt Des Moines High School

Weitz Company

Part I: Overview of Business

- Started in Fort Des Moines, Iowa in 1855
- Construction Company
- Pioneered the development of pre-cast concrete exterior wall construction

Part II: Job Specifics

- Input and analyze data, including quantities of concrete, hours, pay, etc. on specific job sites
- Mapping and finding volumes of columns, floors, pools, elevator shafts, etc.
- Optimize the efficiency of entry of man hours.

Part III: Introduce the Problem

- We are going to figure out the quantity of concrete that has been placed so far on the IEC hotel project
- We then are going to see how well the Weitz Company is doing with respect to their estimate.
- There is also a man hours estimate for how long it should've taken the company to pour the concrete.
- If students get done finding the volumes early they can look at whether the amount of hours it took, worked with what was estimated.

Part IV: Background

- You will need a brief knowledge of how to find volumes.
- You will need to be able to look at this and predict or estimate how well The Weitz Company is doing.

Part V: Business Solution

- Make an excel spreadsheet to enter in their quantities and hours they used to see how close they are to the estimate.
- Helped them to keep daily tracks instead of a full floors track
- Used technology instead of pencil and paper to find exact volumes

Part VI: Student Solutions

- One incorrect column or wall volume calculation could throw off their answer.
- Make incorrect ways of estimating and comparing it to how many hours they used.